

## CTR Employer Survey Report

Thank you for completing your Commute Trip Reduction survey. This report contains the survey results.

**Employer Id :** E82165

**Participation :** Other

**Employer :** Astronics Advanced Electronic Systems

**Status :** TMP

**Worksite :** Astronics at QWCC

**Survey Type :** Online

**Street :** 11261 Willows Rd NE

**Response Rate :** 71%

**Jurisdiction :** City of Redmond

**Survey Date :** 9/4/2018

### Non-Drive Alone & One-Way VMT Rates at this Worksite

**Non-Drive Alone Rate :** 15.1%

**Drive Alone Rate :** 84.9%

**One-Way VMT per employee :** 14.2

**Average One-Way distance home to work :** 16.0

### Employees and Survey Response Information

**Reported Total Employees at Worksite :** 95

**Surveys Distributed :** 95

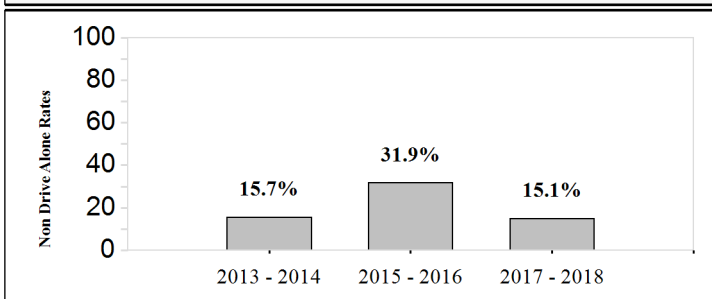
**Surveys Returned :** 67

**Surveys Returned by CTR Affected\* Employees :** 63

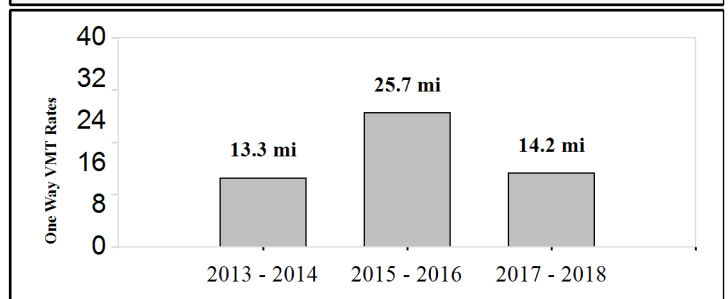
**Total Estimated CTR Affected Employees at Worksite :** 89

\*CTR Affected employees filled out the survey as being full-time and commuting (typically) to work at least twice between 6a and 9a, Monday through Friday.

**Non Drive Alone Rates - ALL Employees**



**One Way VMT per Employee - ALL Employees**



### Site History and Targets

### Annual Metric Tons CO2e Pounds CO2e

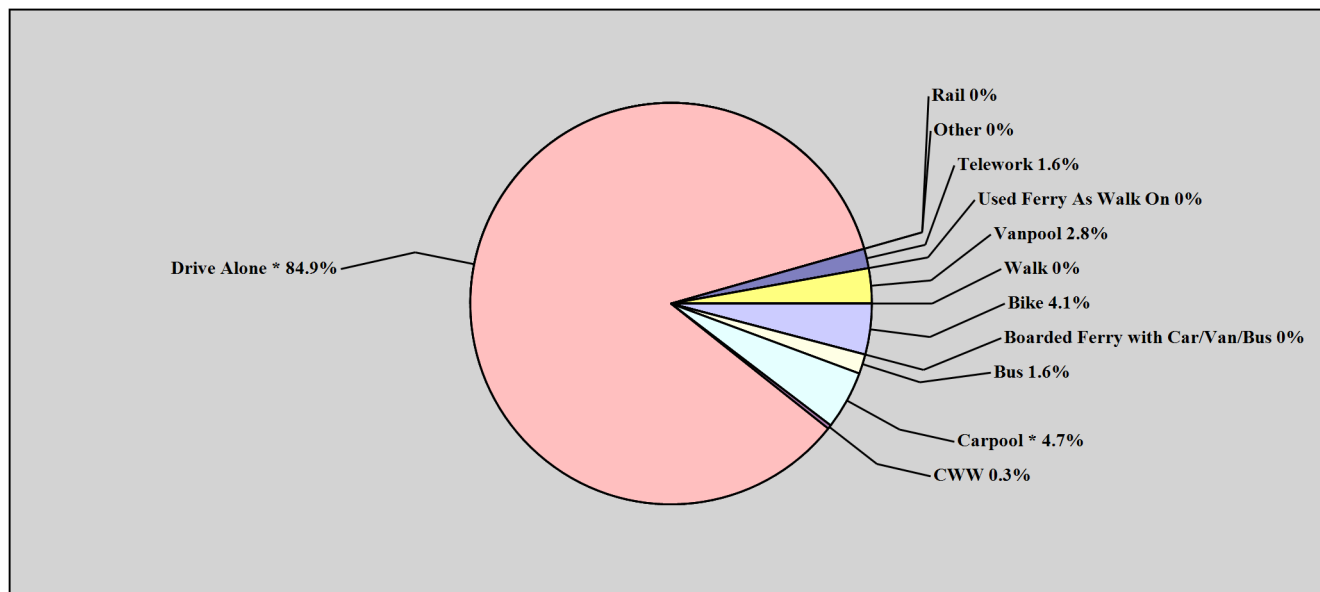
Cycle	Non Drive Alone Rate - All	Non Drive Alone Rate - CTR Affected	Emissions for Surveyed Employees	Estimated Emissions for Total Employment	GHG per Employee's Roundtrip	VMT per Employee - All	VMT per Employee - CTR Affected
2007 - 2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2009 - 2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2011 - 2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2013 - 2014	15.7%	15.3%	124	216	20.0	13.3	13.7
2015 - 2016	15.9%	16.6%	155	190	17.6	12.7	12.5
2015 - 2016	16.0%	17.1%	215	265	24.6	13.0	12.6
2017 - 2018	15.1%	16.1%	180	255	23.7	14.2	14.0
Target	21.7%				Target:	10.9	
% Point Change Target:	6.0				% Change Target:	-18.0%	
% Point Change from Baseline:	-0.6				% Change from Baseline:	6.8%	

GHG calculations are based on VMT and estimated total round-trip commutes for all employees. Modes that contribute to GHG include driving alone, carpooling, vanpooling, and riding a motorcycle. The use of other modes (e.g., transit, rail, walking, ferry) do not increase a worksite's GHG calculation. For more information about how GHG is calculated, please contact your jurisdiction's representative.

## Commute Trips By Mode - All Employees

Q.4: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - All Employees



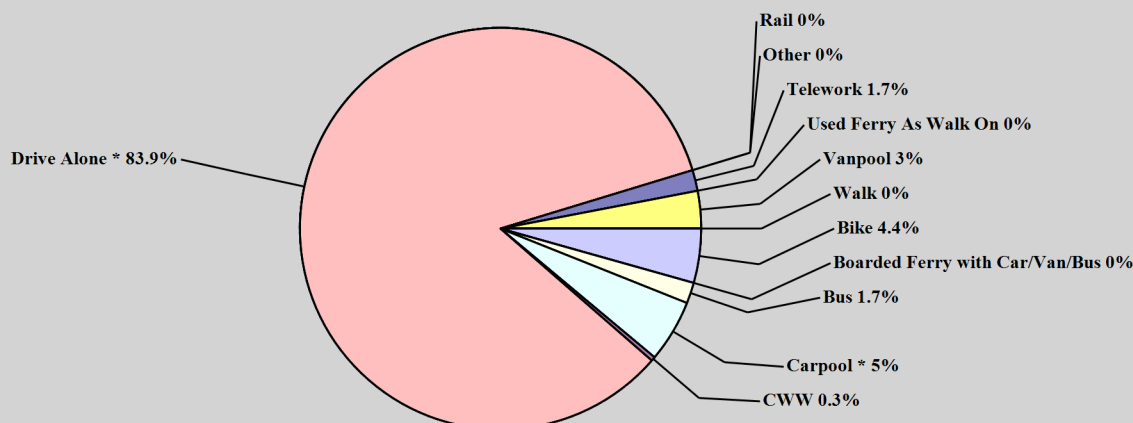
Mode	Trips During This Survey	% of Trips During This Survey	% of Trips During Previous Survey	Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During Previous Survey
Drive Alone *	270	84.9%	84.0%	63	94.0%	93.9%
Carpool *	15	4.7%	4.6%	4	6.0%	6.1%
Vanpool	9	2.8%	1.8%	3	4.5%	2.4%
Bus	5	1.6%	1.3%	1	1.5%	1.2%
Rail	0	0.0%	0.0%	0	0.0%	0.0%
Bike	13	4.1%	6.4%	5	7.5%	12.2%
Walk	0	0.0%	0.0%	0	0.0%	0.0%
Telework	5	1.6%	0.3%	5	7.5%	1.2%
CWW	1	0.3%	0.3%	1	1.5%	1.2%
Boarded Ferry with Car/Van/Bus	0	0.0%	0.0%	0	0.0%	0.0%
Used Ferry As Walk On	0	0.0%	0.0%	0	0.0%	0.0%
Other	0	0.0%	1.5%	0	0.0%	1.2%

\* Motorcycle-1 is now included in Drive Alone and Motorcycle-2 is included in Carpool. Information about these trips is still available by request.

## Commute Trips By Mode - Affected Employees

Q.4: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - CTR Affected Employees



Mode	Trips During This Survey	% of Trips During This Survey	% of Trips During Previous Survey	Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During Previous Survey
Drive Alone *	250	83.9%	82.8%	59	93.7%	93.2%
Carpool *	15	5.0%	5.1%	4	6.3%	6.8%
Vanpool	9	3.0%	2.0%	3	4.8%	2.7%
Bus	5	1.7%	1.4%	1	1.6%	1.4%
Rail	0	0.0%	0.0%	0	0.0%	0.0%
Bike	13	4.4%	6.8%	5	7.9%	12.3%
Walk	0	0.0%	0.0%	0	0.0%	0.0%
Telework	5	1.7%	0.3%	5	7.9%	1.4%
CWW	1	0.3%	0.0%	1	1.6%	0.0%
Boarded Ferry with Car/Van/Bus	0	0.0%	0.0%	0	0.0%	0.0%
Used Ferry As Walk On	0	0.0%	0.0%	0	0.0%	0.0%
Other	0	0.0%	1.7%	0	0.0%	1.4%

\* Motorcycle-1 is now included in Drive Alone and Motorcycle-2 is included in Carpool. Information about these trips is still available by request.

### Alternative Modes - Number of Employees Who Used a Non-Drive Alone Mode:

Non-Drive Alone Number Of Days	Exactly this # of Employees	Exactly this % of Employees	At least # of Employees	At least % of employees
<b>0 Day</b>	49	73%	67	100%
<b>1 Days</b>	6	9%	18	27%
<b>2 Days</b>	3	4%	12	18%
<b>3 Days</b>	4	6%	9	13%
<b>4 Days</b>	1	1%	5	7%
<b>5 Days</b>	4	6%	4	6%
<b>6 or More Days</b>	0	0%	0	0%

### Count by Occupancy of Carpools and Vanpools

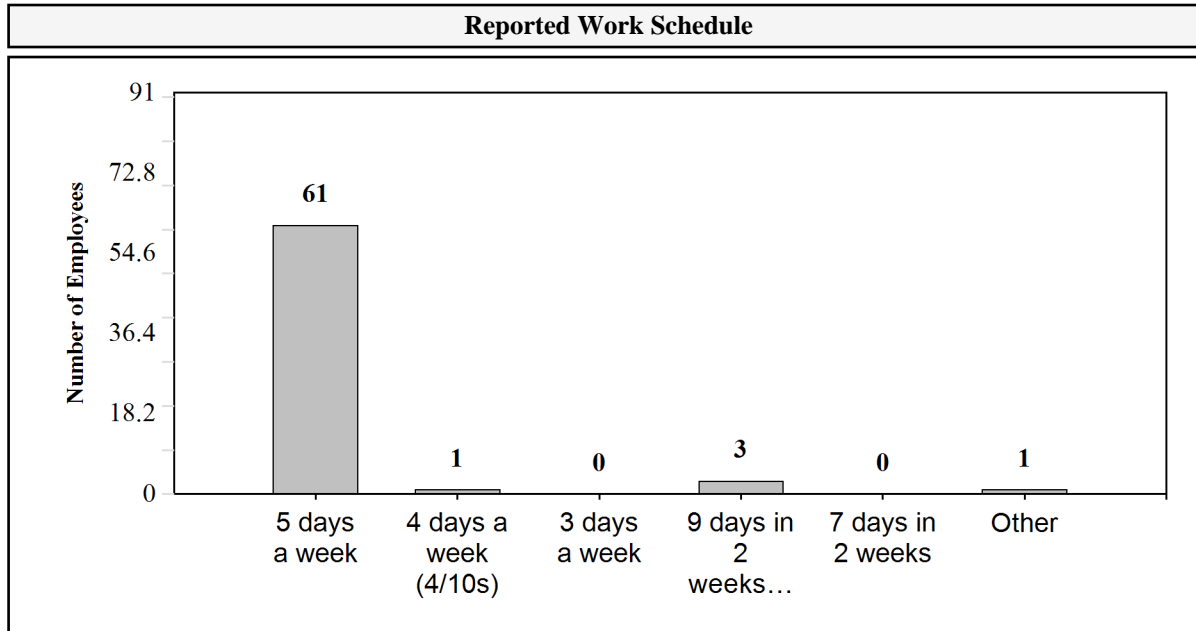
Q.5 If you used a carpool or vanpool as part of your commute, how many people (age 16 or older) are usually in the vehicle?

Ridesharing Occupancy	Mode	Response Count
<b>2*</b>	Carpool	15
<b>3</b>	Carpool	0
<b>4</b>	Carpool	0
<b>5</b>	Carpool	0
<b>&gt;5</b>	Carpool	0
<b>&lt;5</b>	Vanpool	2
<b>5</b>	Vanpool	4
<b>6</b>	Vanpool	0
<b>7</b>	Vanpool	0
<b>8</b>	Vanpool	0
<b>9</b>	Vanpool	0
<b>10</b>	Vanpool	0
<b>11</b>	Vanpool	0
<b>12</b>	Vanpool	3
<b>13</b>	Vanpool	0
<b>14</b>	Vanpool	0
<b>&gt;14</b>	Vanpool	0

\* Motorcycle-2 counted with Carpool-2 for this table.

## Reported Work Schedule - All Employees

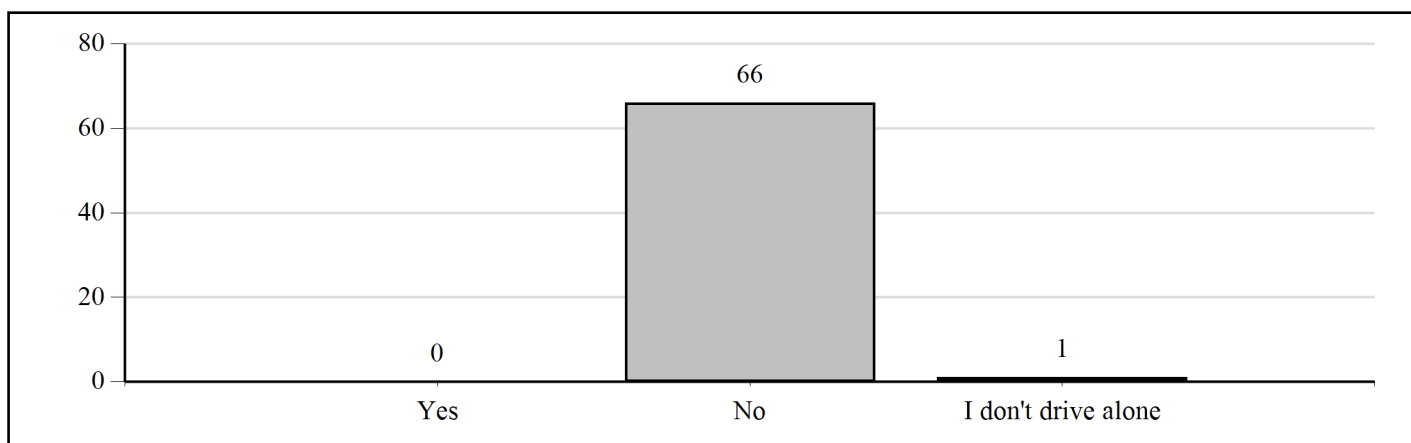
Q.8 Which of the following best describes your work schedule?



Reported Work Schedule	# Of Responses	% Of Employees
5 days a week	61	92.4%
4 days a week (4/10s)	1	1.5%
3 days a week	0	0%
9 days in 2 weeks (9/80)	3	4.5%
7 days in 2 weeks	0	0%
Other	1	1.5%

## Parking and Telework

**Q.9: On the most recent day that you drove alone to work, did you pay to park? (Mark "yes" if you paid that day, if you prepaid, if you are billed later, or if the cost of parking is deducted from your paycheck.)**



**Q.10: How many days do you typically telework?**

Telework Frequency	# of Responses	% of Responses
No Answer/Blank	0	0.0%
I don't telework	33	49.3%
Occasionally, on an as-needed basis	25	37.3%
1-2 days/month	6	9.0%
1 day/week	3	4.5%
2 days/week	0	0.0%
3 days/week	0	0.0%

**Reasons for driving alone to work/not driving alone to work**
**Q11. When you do not drive alone to work, what are the three most important reasons?**

Question Text	# of Responses	% of Responses
Financial incentives for carpooling, bicycling or walking.	24	15.8%
Personal health or well-being	24	15.8%
To save money	22	14.5%
I have the option of teleworking	20	13.2%
Environmental and community benefits	15	9.9%
To save time using the HOV lane	14	9.2%
Other	10	6.6%
Free or subsidized bus, train, vanpool pass or fare benefit	8	5.3%
Driving myself is not an option	6	3.9%
Emergency ride home is provided	4	2.6%
Cost of parking or lack of parking	3	2.0%
Preferred/reserved carpool/vanpool parking is provided	2	1.3%
I receive a financial incentive for giving up my parking space	0	0.0%

**Q12. When you drive alone to work, what are the three most important reasons?**

Question Text	# of Responses	% of Responses
Riding the bus or train is inconvenient or takes too long	46	26.9%
I like the convenience of having my car	39	22.8%
Family care or similar obligations	23	13.5%
Other	19	11.1%
My job requires me to use my car for work	18	10.5%
My commute distance is too short	12	7.0%
Bicycling or walking isn't safe	12	7.0%
I need more information on alternative modes	2	1.2%
There isn't any secure or covered bicycle parking	0	0.0%

## Commute Mode By ZipCode for All Employees

Q6. What is your home zip code?

Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98052	7	10.45%	25	0	0	0	0	0	3	0	0	0	0	0	0
98034	5	7.46%	20	5	0	0	0	0	0	0	0	0	0	0	0
98012	3	4.48%	15	0	0	0	0	0	0	0	0	0	0	0	0
98021	3	4.48%	9	5	0	0	0	0	1	0	0	0	0	0	0
98056	3	4.48%	15	0	0	0	0	0	0	0	0	0	0	0	0
98075	3	4.48%	13	0	0	0	0	0	0	0	2	0	0	0	0
98155	3	4.48%	15	0	0	0	0	0	0	0	0	0	0	0	0
98272	3	4.48%	8	0	2	3	0	0	0	0	0	0	0	0	0
98028	2	2.99%	10	0	0	0	0	0	0	0	0	0	0	0	0
98059	2	2.99%	10	0	0	0	0	0	0	0	0	0	0	0	0
98115	2	2.99%	5	0	3	0	0	0	0	0	0	1	0	0	0
98203	2	2.99%	10	0	0	0	0	0	0	0	0	0	0	0	0
98004	1	1.49%	0	0	0	0	0	0	0	0	0	0	0	0	0
98006	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98007	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98011	1	1.49%	0	0	0	0	0	0	5	0	0	0	0	0	0
98019	1	1.49%	3	0	0	2	0	0	0	0	0	0	0	0	0
98020	1	1.49%	3	0	0	0	0	0	2	0	0	0	0	0	0
98025	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98027	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98031	1	1.49%	4	0	0	0	0	0	0	0	1	0	0	0	0
98033	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98050	1	1.49%	0	5	0	0	0	0	0	0	0	0	0	0	0
98053	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98058	1	1.49%	1	0	4	0	0	0	0	0	0	0	0	0	0
98072	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0





			Weekly Count of Trips By Mode												
Home Zip code	Total Employees	Employee Percentage	Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98074	1	1.49%	3	0	0	0	0	0	2	0	0	0	0	0	0
98087	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98103	1	1.49%	4	0	0	0	0	0	0	0	1	0	0	0	0
98106	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98119	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98125	1	1.49%	0	0	0	0	5	0	0	0	0	0	0	0	0
98133	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98144	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98204	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98223	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98270	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98290	1	1.49%	4	0	0	0	0	0	0	0	0	0	0	0	0
98292	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0
98422	1	1.49%	3	0	0	0	0	0	0	0	1	0	0	0	0
98498	1	1.49%	5	0	0	0	0	0	0	0	0	0	0	0	0